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This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) Tri-block copolymers of molecular weight ranging between 2,000 Daltons to 2[[,]]00,000 Daltons having formula (1), having extraordinarily high binding strength,

Formula (1)

wherein,

R₁ is H, CH₃, C₂H₅, or C₆H₅; R₂ is H, CH₃, C₂H₅, or C₆H₅; here, R₂ at aforementioned two positions can be either identical or different; X is an ester or amide linkage; m is ranging from 3 to 500; n is ranging from 2 to 50; L is OH, NH₂,OCH₃, or NHCH(CH₃)₂; Y is N-Acetyl Glucosamine, mannose, galactose, sialic acid, fructose, ribulose, erythrolose, xylulose, psicose, sorbose, tagatose, glucopyranose, fructofuranose, deoxyribose, galactosamine, sucrose, lactose, isomaltose, maltose, cellobiose, cellulose, or amylose.

- (Canceled).
- 3. (Original) The tri-block co-polymer as claimed in claim 1, wherein the said co-polymer shows about 11,000 times increase in the binding strength as compared to the ligand alone.
- 4. (Withdrawn) A simple and effective process for the preparation of tri-block copolymers of formula (1) of claim 1, said process comprises steps of:

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- a. dissolving the polymer of formula 3 bearing di-functional groups at both terminal ends in a solvent,
- b. adding a polyvalent oligomer of formula 2 into the dissolved polymer of step (a) in the ratio of about 1:2 for di-functional group to polyvalent oligomer to obtain a reaction mixture,
- c. dissolving a coupling agent to the reaction mixture in the ratio of about 1:1 to initiate the reaction,
- d. allowing a reaction for a time duration ranging between 24 hrs to 48 hrs at room temperature ranging between 15 to 45°C,
- removing the unreacted coupling agent after the reaction by filtration to obtain triblock polymer,
- f. precipitating the tri-block polymer in a non-solvent at room temperature to obtain the dried tri-block copolymers.
- 5. (Withdrawn) A process as claimed in claim 4, wherein the polymers bearing diffunctional groups at both ends is selected from a group comprising acrylic acid, methacrylogl chloride, acrylamide, N-isopropyl acrylamide (NIPA), 2-acrylamido-2-methyl propanesulphonic acid (AMPS) methacrylate, acrylogl chloride, acrylogl morpholine, vinyl pyrrolidone, styrcne, allyl alcohol, and allyl amine.
- 6. (Withdrawn) A process as claimed in claim 4, wherein the polymers bearing diffunctional groups at both ends contain COOH group.
- 7. (Withdrawn) A process as claimed in claim 4, wherein the polyvalent oligomer containing terminal reactive group ligands is selected from a group comprising polymethacryloyl NAG, polyacryloyl NAG, and Poly vinyl benzyl NAG.
- 8. (Withdrawn) A process as claimed in claim 4, wherein the oligomer containing terminal reactive group contain OH or NH₂ group.

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- 9. (Withdrawn) A process as claimed in claim 4, wherein the organic solvent is selected from a group comprising dimethyl formamide, tetra hydro furan, and di-methyl sulfoxice.
- 10. (Withdrawn) A process as claimed in claim 4, wherein the coupling agent used is selected from a group comprising compounds Di Cyclohexyl Carbodiimide (DCC), 1-Cyclohexyl 3-(2-Morpholinoethyl) Carbodiimide metho-p-toluenesulfonate (CMC), and 1-Ethyl-3-(3-Dimethylamino-propyl) Carbodiimide (EDC).
- 11. (Withdrawn) A process as claimed in claim 4, wherein the molar ratio of coupling agent to polymer is about 1:1.
- 12. (Withdrawn) A process as claimed in claim 4, wherein the non-solvent is selected from a group comprising acetone, diethyl ether, hot water, and hexane.
- 13. (Withdrawn) A method of preventing and/or treating microbial infections, wherein the said method comprises steps of exposing the microbe to the pharmaceutically effective amount of tri-block copolymer of formula 1, and thereafter, binding of the polymer to the microbe inhibits the microbial infection.
- 14. (Withdrawn) A method of treatment as claimed in claim 13, wherein the possibility of drug resistance does not exist.
- 15. (Withdrawn) A method of treatment as claimed in claim 13, wherein the said method helps prevent and or treat infection caused by influenza virus, wheat germ agglutinin and rotavirus.
- 16. (Withdrawn) A method of treatment as claimed in claim 13, wherein the % increase in the relative inhibition of the microbe (I_{max}) is about 60%.

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17. (Withdrawn) A method of treatment as claimed in claim 13, wherein the said copolymer shows about 11,000 times increase in the binding strength as compared to the ligand alone.